Name: Abhinav Sanjay

USN: 1BM23CS009

Create a class Book which contains four members: name, author, price, num_pages. Include a constructor to set the values for the members. Include methods to set and get the details of the objects. Include a toString() method that could display the complete details of the book. Develop a Java program to create n book objects.

```
import java.util.Scanner;
class Book {
  private String name;
  private String author;
  private double price;
  private int numPages;
  public Book(String name, String author, double price, int numPages) {
    this.name = name;
    this.author = author;
    this.price = price;
    this.numPages = numPages;
  }
  public void setName(String name) {
    this.name = name;
  }
  public void setAuthor(String author) {
    this.author = author;
  }
  public void setPrice(double price) {
    this.price = price;
  }
  public void setNumPages(int numPages) {
    this.numPages = numPages;
```

```
}
  public String getName() {
    return name;
  }
  public String getAuthor() {
    return author;
  }
  public double getPrice() {
    return price;
  }
  public int getNumPages() {
    return numPages;
  }
  // toString method
  @Override
  public String toString() {
    return "Book Name: " + name + ", Author: " + author + ", Price: " + price + ", Number of Pages: " +
numPages;
  }
}
public class BookMain {
  public static void main(String[] args) {
        System.out.println("Name: Abhinav Sanjay\nUSN: 1BM23CS009");
    Scanner scanner = new Scanner(System.in);
    System.out.println("\nEnter the number of books: ");
    int n = scanner.nextInt();
```

```
scanner.nextLine(); // Consume the newline
Book[] books = new Book[n];
for (int i = 0; i < n; i++) {
  System.out.println("Enter details for book " + (i + 1) + ":");
  System.out.print("Name: ");
  String name = scanner.nextLine();
  System.out.print("Author: ");
  String author = scanner.nextLine();
  System.out.print("Price: ");
  double price = scanner.nextDouble();
  System.out.print("Number of Pages: ");
  int numPages = scanner.nextInt();
  scanner.nextLine(); // Consume the newline
  books[i] = new Book(name, author, price, numPages);
}
System.out.println("\nBook Details:");
for (Book book : books) {
  System.out.println(book);
```

}

}

}

scanner.close();

Output:

```
D:\Abhinav3A\Java>java BookMain
Name: Abhinav Sanjay
USN : 1BM23CS009
Enter the number of books:
Enter details for book 1:
Name: ABC
Author: Robert Frost
Price: 500
Number of Pages: 300
Enter details for book 2:
Name: DEF
Author: Chetan Bhagat
Price: 350
Number of Pages: 200
Enter details for book 3:
Name: Ruskin Bond
Author: XYZ
Price: 400
Number of Pages:
500
Book Details:
Book Name: ABC, Author: Robert Frost, Price: 500.0, Number of Pages: 300
Book Name: DEF, Author: Chetan Bhagat, Price: 350.0, Number of Pages: 200
Book Name: Ruskin Bond, Author: XYZ, Price: 400.0, Number of Pages: 500
```